WBLE-SL ► UECM3463-202305-EZZ ► Quizzes ► 202306UECM34630E2a ► Review of preview								
WBEE-SE P GECMS40	3-202303-L22 P Quizzes P 2023000LCN	Upr	date this Quiz					
	Info Results Preview Edit							
202306UECM34630E2a Start again								
	Review of preview							
	Sunday, 23 July 2023, 09:27 PM							
Completed on Time taken	Sunday, 23 July 2023, 09:27 PM							
	o out of a maximum of 10 (0%)							
1 🕏 Marks: 1	A random variable follows a Poisson of	distribution with $\lambda = 0.7$. Calculate the third raw moment of the distribution						
Mdrks: 1								
	Answer:	X						
	Make comment or override grade							
	Incorrect							
	Correct answer: 2.513	0.071						
	Marks for this submission	. 0/1.						
	Deatel January Comment will a se							
2 Dental Insurance Company sells a policy that covers two types of dental procedures: root canals and fillings. There is a limit of 1 root canal per year and a separate limit of 2 fillings per year. The number of root canals a person needs in a year follows a Poisson distribution with λ = 1.193, and the number of fillings a person needs in a year follows a Poisson distribution with λ = 2.386. The company is considering replacing the single limits with a combined limit of 3 claims.								
	regardless of the type of claim. Deter	rmine the change in the expected number of claims per year if the combined limit is adopted						
	Answer:	X						
	Make comment or override grade							
	Incorrect							
	Correct answer: 0.2446	0/1						
	Marks for this submission	: 0/1.						
	Fan a cambaia (a. b. 0) diabaibatian							
3 🕏 Marks: 1	For a certain (a, b, 0) distribution,							
	 a = 0.5884773662551441, b = 2.9423868312757206, and 	d						
	• $1000p_0 = 4.856935749618865$	j.						
	Calculate the probability of exactly 1	events occurring times 1000, i.e. $1000p_1$						
	Answer:	X						
	Mala annual an annual annual							
	Make comment or override grade Incorrect							
	Correct answer: 17.149181							
	Marks for this submission	: 0/1.						
4 👺 Marks: 1	For a discrete probability distribution $p_k = (2.64/k + 0.88)p_{(k-1)}$, $k = 1, 2$,							

Determine 1000p ₄ .						
Answer:		х				
Make comment or overr Incorrect Correct answer: 4.3583 Marks for this su	68					
5 🗹 Marks: 1	For a zero-modified Poisson distribution, p ₁ = 0.1524, p ₂ = 0.061, calculate the probability of 0					
	Answer:] <i>x</i>			
	Make comment or override grade Incorrect Correct answer: 0.7665 Marks for this submission	: 0/1.				
6 ☑ Marks: 1	For a zero-modified negative binomial distribution, $r = 2$ and β , $p_0 = 0.20$, and $p_1 = 0.0533$. Find β .					
	Answer:] <i>x</i>			
	Make comment or override grade Incorrect Correct answer: 0.068267 Marks for this submission	: 0/1.				
7 🗑 Marks: 1	For a zero-modified Poisson distribution, $p_1 = 0.0005$, $p_2 = 0.0019$, calculate the variance of the distribution.					
	Answer:] x			
	Make comment or override grade Incorrect Correct answer: 7.596 Marks for this submission	: 0/1.				
8 👺	For a distribution in the (a, b, 0) class	s, you are given that				
Marks: 1	• $p_1 = 0.015444390850476832$, • $p_2 = 0.02517921022203432$, a • $p_3 = 0.03420835399851243$. Determine $100,000p_4$.					
	Answer:		ע. ע			
	Make comment or override grade Incorrect Correct answer: 4182.777481 Marks for this submission	: 0/1.				
9 🗑 Marks: 1	N^M is a discrete random variable with $P(z)=0.41+0.59[e^{5.50(z-1)}.\ e^{-5.50}]$ Calculate the variance of the distribut	probability function which is a member of the (a, b, 1) class of distributions. You are given $[[1-e^{-5.50}]$ ion.				
	Answer:		x			

Make comment or override grade

Incorrect Correct answer: 10.5625

Marks for this submission: 0/1.

10 🖢 Marks: 1	For a zero-modified ETNB distribution, you are given: (i) $p_1 = 0.693155$, (ii) $p_2 = 0.023577$ and $p_3 = 0.002859$. Determine the probability of 0				
	Answer:] <i>x</i>		
	Make comment or override grade Incorrect Correct answer: 0.279823 Marks for this submission	: 0/1.			

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